

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L15	199	("68".clas. or 8/158,159. ccls.) and rins\$4 same (agitat\$4 or pulsat\$4 or swirl\$4 or tumbl\$4 or spin \$4 or rotat\$4) near10 (direction or oscillat\$4 or back\$4 or forth or front) same (immers\$4 or submerg\$4 or soak\$4 or dunk\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/23 13:26
L16	5	"7127767"	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/23 13:47
L17	30	("20020079861"   "20030035757"   "20030208852"   "20030208855"   "20040112096"   "20040139767"   "4061000"   "4170882"   "4220232"   "4325234"   "4327302"   "4344198"   "4434546"   "4437325"   "4476736"   "4689973"   "4806717"   "4857814"   "5031427"   "5219370"   "5341452"   "5460018"   "5546772"   "5832553"   "5862553"   "5926887"   "5974610"   "6189171"   "6384568"   "6516485"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/23 13:52
L18	70	("68".clas. or 8/158,159. ccls.) and rins\$4 same (agitat\$4 or pulsat\$4 or swirl\$4 or tumbl\$4 or spin \$4 or rotat\$4) near10 (vary\$4 or random\$4) near5 (speed or velocity or period or duration)	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/23 15:10
L19	25	("1930241"   "2092954"   "2208102"   "2273566"   "2289419"   "2422545"   "2821840"   "3213651"   "3987652").PN. OR ("4170882").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/23 15:18

L20	44	(68/23.7,132,133.ccls.) and (agitat\$4 or pulsat\$4 or swirl\$4 or tumbl\$4 or spin\$4 or rotat\$4) near10 (vary\$4 or random\$4) near5 (speed or velocity or period or duration or time)	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/23 15:45
S1	1	"10535247"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/02 16:31
S2	19	68/12.06.ccls. and (ion or elut\$4 or cu or zn or ag or copper or silver or zinc)	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/02 16:32
S3	8	("2406494"   "4112590"   "5435837"   "6085556"   "6564591").PN. OR ("6954995").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/02 16:40
S4	256	68/12.06.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/02 16:40
S5	2	"6023854"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/02 19:41
S6	12348	((wash\$4 or laundry) near5 (appliance or machine or cloth\$4 or textile or garment or fabric)) and (ion or cu or zn or ag or silver or copper or zn or elut\$4) and (unbalanc\$4 or imbalanc\$4 or wobbl\$4 or balanc\$4 or vibrat\$4 or shak\$4 or eccentric\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/02 19:53
S7	4732	((wash\$4 or laundry) near5 (appliance or machine or cloth\$4 or textile or garment or fabric)) and (ion or cu or zn or ag or silver or copper or zn or elut\$4) with (water or liquid or fluid) and (unbalanc\$4 or imbalanc\$4 or wobbl\$4 or balanc\$4 or vibrat\$4 or shak\$4 or eccentric\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/02 19:54

S8	150	((wash\$4 or laundry) near5 (appliance or machine or cloth\$4 or textile or garment or fabric)) and (ion or cu or zn or ag or silver or copper or zn or elut\$4) with (water or liquid or fluid) and ((unbalanc\$4 or imbalanc\$4 or wobbl\$4 or balanc\$4 or vibrat\$4 or shak\$4 or eccentric\$4) near5 (detect\$4 or monitor\$4 or sens\$4 or measur\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/02 19:55
S10	259	68/12.06.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/01 15:10
S11	152	((wash\$4 or laundry) near5 (appliance or machine or cloth\$4 or textile or garment or fabric)) and (ion or cu or zn or ag or silver or copper or zn or elut\$4) with (water or liquid or fluid) and ((unbalanc\$4 or imbalanc\$4 or wobbl\$4 or balanc\$4 or vibrat\$4 or shak\$4 or eccentric\$4) near5 (detect\$4 or monitor\$4 or sens\$4 or measur\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/01 15:10
S12	11	68/12.06.ccls. and (drum or tub) and (dispens\$4) and (agitat\$4 or pulsat\$4) and (control\$4 or computer or processor or microprocessor or microcontrol\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/02 14:29
S13	19	68/12.06.ccls. and (ion or elut\$4 or cu or zn or ag or copper or silver or zinc)	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/02 14:29
S14	11	68/12.06.ccls. and (dispens\$4) and (agitat\$4 or pulsat\$4) and (control\$4 or computer or processor or microprocessor or microcontrol\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/02 15:17

S15	52	68/12.06.ccls. and (dispens\$4 or detergent) and (agitat\$4 or pulsat\$4) and (control\$4 or computer or processor or microprocessor or microcontrol\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/02 15:18
S16	1110	68/17r.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/02 17:09
S17	209	68/17r.ccls. and control\$4 near5 dispens\$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/02 17:10
S18	19	68/12.06.ccls. and (ion or elut\$4 or cu or zn or ag or copper or silver or zinc)	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/31 14:02
S19	153	((wash\$4 or laundry) near5 (appliance or machine or cloth\$4 or textile or garment or fabric)) and (ion or cu or zn or ag or silver or copper or zn or elut\$4) with (water or liquid or fluid) and ((unbalanc\$4 or imbalanc\$4 or wobbl\$4 or balanc\$4 or vibrat\$4 or shak\$4 or eccentric\$4) near5 (detect\$4 or monitor\$4 or sens\$4 or measur\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/31 14:03
S20	1887	((wash\$4 or laundry or fabric) near5 (appliance or machine or cloth\$4 or textile or garment or fabric)) and (ion\$4 or silver or copper or zinc ) with (rins\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/07 14:41
S21	400	((wash\$4 or laundry or fabric) near5 (appliance or machine or cloth\$4 or textile or garment or fabric)) and (ion\$4 or silver or copper or zinc ) with (rins\$4) and (tub or drum)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/07 14:41
S22	266	((wash\$4 or laundry or fabric) near5 (appliance or machine or cloth\$4 or textile or garment or fabric)) and (ion\$4 or silver or copper or zinc ) near10(rins\$4) and (tub or drum)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/07 14:43

S23	116	((wash\$4 or laundry or fabric) near5 (appliance or machine or cloth\$4 or textile or garment or fabric)) and (ion\$4 or silver or copper or zinc ) near10(rins\$4) and (tub or drum) and (disinfect\$4 or sterilize or sterilization or antimicrob\$4 or antibacterial or antiseptic or antifungal)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/07 14:45
S24	40	(US-20060164093-\$ or US-20050210929-\$ or US-20050210931-\$ or US-20030056555-\$ or US-20020020196-\$ or US-20030110814-\$ or US-20050210602-\$ or US-20030061841-\$ or US-20030140427-\$ or US-20030145392-\$ or US-20050252538-\$ or US-20030024280-\$).did. or (US-6023854-\$ or US-5345792-\$ or US-5280660-\$ or US-5085064-\$ or US-6782722-\$ or US-6615619-\$ or US-6658902-\$ or US-6550292-\$ or US-6477867-\$ or US-6647575-\$ or US-6510715-\$ or US-5692313-\$ or US-6029300-\$ or US-5765402-\$ or US-6418758-\$ or US-4411664-\$ or US-7322065-\$ or US-6401284-\$ or US-5327603-\$ or US-5906020-\$ or US-3871914-\$ or US-5246559-\$ or US-5593627-\$ or US-5405507-\$ or US-6106722-\$ or US-5469719-\$).did. or (US-5642548-\$).did. or (JP-2001009188-\$ or JP-2001276484-\$ or JP-2004166938-\$ or JP-2001046790-\$ or JP-	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/07 16:02

		2001276469-\$ or JP- 06269592-\$ or JP- 2003154195-\$ or JP- 2001070221-\$).did. or (WO-03040458-\$ or WO- 2004046447-\$ or GB- 2260547-\$ or US- 4311505-\$ or EP-531617- \$ or JP-09215650-\$ or EP- 748892-\$ or JP- 2003071184-\$ or JP- 2001276484-\$ or JP- 2000312798-\$ or JP- 2000014986-\$ or JP- 2002113288-\$ or JP- 2003154195-\$ or JP- 2001070221-\$).did.				
S25	111	(US-20060164093-\$ or US-20050210929-\$ or US- 20050210931-\$ or US- 20030056555-\$ or US- 20020020196-\$ or US- 20030110814-\$ or US- 20050210602-\$ or US- 20030061841-\$ or US- 20030140427-\$ or US- 20030145392-\$ or US- 20050252538-\$ or US- 20030024280-\$).did. or (US-6023854-\$ or US- 5345792-\$ or US- 5280660-\$ or US- 5085064-\$ or US- 6782722-\$ or US- 6615619-\$ or US- 6658902-\$ or US- 6550292-\$ or US- 6477867-\$ or US- 6647575-\$ or US- 6510715-\$ or US- 5692313-\$ or US- 6029300-\$ or US- 5765402-\$ or US- 6418758-\$ or US- 4411664-\$ or US- 7322065-\$ or US- 6401284-\$ or US- 5327603-\$ or US- 5906020-\$ or US- 3871914-\$ or US- 5246559-\$ or US- 5593627-\$ or US- 5405507-\$ or US- 6106722-\$ or US- 5469719-\$).did. or (US- 5642548-\$).did. or (JP-	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/09/07 16:02

		2001009188-\$ or JP- 2001276484-\$ or JP- 2004166938-\$ or JP- 2001046790-\$ or JP- 2001276469-\$ or JP- 06269592-\$ or JP- 2003154195-\$ or JP- 2001070221-\$).did. or (WO-03040458-\$ or WO- 2004046447-\$ or GB- 2260547-\$ or US- 4311505-\$ or EP-531617- \$ or JP-09215650-\$ or EP- 748892-\$ or JP- 2003071184-\$ or JP- 2001276484-\$ or JP- 2000312798-\$ or JP- 2000014986-\$ or JP- 2002113288-\$ or JP- 2003154195-\$ or JP- 2001070221-\$).did.				
S26	109	(US-20060164093-\$ or US-20050210929-\$ or US- 20050210931-\$ or US- 20030056555-\$ or US- 20020020196-\$ or US- 20030110814-\$ or US- 20050210602-\$ or US- 20030061841-\$ or US- 20030140427-\$ or US- 20030145392-\$ or US- 20050252538-\$ or US- 20030024280-\$).did. or (US-6023854-\$ or US- 5345792-\$ or US- 5280660-\$ or US- 5085064-\$ or US- 6782722-\$ or US- 6615619-\$ or US- 6658902-\$ or US- 6550292-\$ or US- 6477867-\$ or US- 6647575-\$ or US- 6510715-\$ or US- 5692313-\$ or US- 6029300-\$ or US- 5765402-\$ or US- 6418758-\$ or US- 4411664-\$ or US- 7322065-\$ or US- 6401284-\$ or US- 5327603-\$ or US- 5906020-\$ or US- 3871914-\$ or US- 5246559-\$ or US- 5593627-\$ or US-	US-PGPUB; USPAT; USOCR; JPO; DERWENT	OR	ON	2010/09/07 16:03

		5405507-\$ or US- 6106722-\$ or US- 5469719-\$).did. or (US- 5642548-\$).did. or (JP- 2001009188-\$ or JP- 2001276484-\$ or JP- 2004166938-\$ or JP- 2001046790-\$ or JP- 2001276469-\$ or JP- 06269592-\$ or JP- 2003154195-\$ or JP- 2001070221-\$ or JP- 03097497-\$).did. or (WO- 03040458-\$ or WO- 2004046447-\$ or GB- 2260547-\$ or US- 4311505-\$ or EP-531617- \$ or JP-09215650-\$ or EP- 748892-\$ or JP- 2003071184-\$ or JP- 2001276484-\$ or JP- 2000312798-\$ or JP- 2000014986-\$ or JP- 2002113288-\$ or JP- 2003154195-\$ or JP- 2001070221-\$ or JP- 06269592-\$ or JP- 03097497-\$).did.				
S27	107	(US-20060164093-\$ or US-20050210929-\$ or US- 20050210931-\$ or US- 20030056555-\$ or US- 20020020196-\$ or US- 20030110814-\$ or US- 20050210602-\$ or US- 20030061841-\$ or US- 20030140427-\$ or US- 20030145392-\$ or US- 20050252538-\$ or US- 20030024280-\$).did. or (US-6023854-\$ or US- 5345792-\$ or US- 5280660-\$ or US- 5085064-\$ or US- 6782722-\$ or US- 6615619-\$ or US- 6658902-\$ or US- 6550292-\$ or US- 6477867-\$ or US- 6647575-\$ or US- 6510715-\$ or US- 5692313-\$ or US- 6029300-\$ or US- 5765402-\$ or US- 6418758-\$ or US- 4411664-\$ or US-	US-PGPUB; USPAT; USOCR; JPO; DERWENT	OR	ON	2010/09/07 16:03



		7322065-\$ or US- 6401284-\$ or US- 5327603-\$ or US- 5906020-\$ or US- 3871914-\$ or US- 5246559-\$ or US- 5593627-\$ or US- 5405507-\$ or US- 6106722-\$ or US- 5469719-\$).did. or (US- 5642548-\$).did. or (JP- 2001009188-\$ or JP- 2001276484-\$ or JP- 2004166938-\$ or JP- 2001046790-\$ or JP- 2001276469-\$ or JP- 06269592-\$ or JP- 2003154195-\$ or JP- 2001070221-\$).did. or (WO-03040458-\$ or WO- 2004046447-\$ or GB- 2260547-\$ or US- 4311505-\$ or EP-531617- \$ or JP-09215650-\$ or EP- 748892-\$ or JP- 2003071184-\$ or JP- 2001276484-\$ or JP- 2000312798-\$ or JP- 2000014986-\$ or JP- 2002113288-\$ or JP- 2003154195-\$ or JP- 2001070221-\$).did.				
S28	109	S26 or S27	US-PGPUB; USPAT; USOCR; JPO; DERWENT	OR	ON	2010/09/07 16:04
S29	19	"5873268"	US-PGPUB; USPAT; USOCR; JPO; DERWENT	OR	ON	2010/09/07 16:23
S30	18	"5873268"	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/07 16:23
S31	312	8/159,158.ccls. and (rins \$4 same (oscillat\$4 or agitat\$4 or rotat\$4 or pulsat\$4 or spin\$4 or tumbl\$4) near5 (intensity or force or strength or speed or velocity or power or energy)) same (drum or tub)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/07 16:59

S32	176	8/159,158.ccls. and (rins\$4 with (oscillat\$4 or agit\$4 or rotat\$4 or puls\$4 or spin\$4 or tumbl\$4) near5 (intensity or force or strength or speed or velocity or power or energy)) same (drum or tub)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/07 17:01
S33	17	("3620053"   "4225992"   "4464914"   "5167722"   "5191668"   "5199127"   "5233718"   "5504955"   "5606877"   "5687440"   "5737790"   "5743115"   "5758377"   "5768730"   "6029298"   "6125490"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/07 17:06
S44	30	8/159,158.ccls. and (rins\$4 with (oscillat\$4 or agit\$4 or rotat\$4 or puls\$4 or spin\$4 or tumbl\$4) near5 (intensity or force or strength or speed or velocity or power or energy)) same (drum or tub) and softener	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/08 13:51
S45	3	"5752397"	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/08 14:03
S46	410	"68".clas. and controller with (water or supply) with (detergent or chemical or valve)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/08 15:23
S47	163	"68".clas. and controller with (water or supply) with (detergent or chemical or valve) same time	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/08 15:23
S80	2020	(8/159,158.ccls. or "68". clas.) and (rins\$4 same (oscillat\$4 or agit\$4 or rotat\$4 or puls\$4 or spin\$4 or tumbl\$4) near5 (intensity or force or strength or speed or velocity or power or energy or rpm)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/08 17:49

S81	961	(8/159,158.ccls. or 68/12.01-12.23.ccls.) and (rins\$4 same (oscillat\$4 or agitat\$4 or rotat\$4 or pulsat\$4 or spin\$4 or tumbl\$4) near5 (intensity or force or strength or speed or velocity or power or energy or rpm)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/08 17:49
S82	514	(8/159,158.ccls. or 68/12.01-12.23.ccls.) and (rins\$4) with (oscillat\$4 or agitat\$4 or rotat\$4 or pulsat\$4 or spin\$4 or tumbl\$4) near5 (intensity or force or strength or speed or velocity or power or energy or rpm)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/08 17:50
S83	165	((wash\$4 or laundry) near5 (appliance or machine or cloth\$4 or textile or garment or fabric)) and (ion or cu or zn or ag or silver or copper or zn or elut\$4) with (water or liquid or fluid) and ((unbalanc\$4 or imbalanc\$4 or wobbl\$4 or balanc\$4 or vibrat\$4 or shak\$4 or eccentric\$4) near5 (detect\$4 or monitor\$4 or sens\$4 or measur\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/22 17:31
S84	228	(8/158,159.ccls. or 68/12.12.ccls.) and rins\$4 same (agitat\$4 or pulsat\$4 or swirl\$4 or tumbl\$4) and (immers\$4 or submerg\$4 or soak\$4 or dunk\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/22 17:33
S85	82	(8/158,159.ccls. or 68/12.12.ccls.) and rins\$4 same (agitat\$4 or pulsat\$4 or swirl\$4 or tumbl\$4) with (fast\$4 or slow\$4 or intens\$5 or gentl\$4 or vigor\$4 or speed) and (immers\$4 or submerg\$4 or soak\$4 or dunk\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/22 17:34

S86	25	(8/158,159.ccls. or 68/12.12.ccls.) and rins \$4 same (agitat\$4 or pulsat\$4 or swirl\$4 or tumbl\$4) with (soak\$4) and (immers\$4 or submerg\$4 or soak\$4 or dunk\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/22 17:36
S87	209	(8/158,159.ccls. or 68/12.12.ccls.) and rins \$4 same (agitat\$4 or pulsat\$4 or swirl\$4 or tumbl\$4 or spin\$4 or rotat \$4) with (fast\$4 or slow \$4 or intens\$5 or gentl\$4 or vigor\$4 or speed or direction) and (immers\$4 or submerg\$4 or soak\$4 or dunk\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/22 18:06
S88	75	(8/158,159.ccls. or 68/12.12.ccls.) and rins \$4 same (agitat\$4 or pulsat\$4 or swirl\$4 or tumbl\$4 or spin\$4 or rotat \$4) near10 (fast\$4 or slow\$4 or intens\$5 or gentl\$4 or vigor\$4 or speed or direction or oscillat\$4 or back\$4 or forth or front) same (immers\$4 or submerg\$4 or soak\$4 or dunk\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/22 18:16
S89	11	(8/158,159.ccls. or 68/12.12.ccls.) and rins \$4 same (agitat\$4 or pulsat\$4 or swirl\$4 or tumbl\$4 or spin\$4 or rotat \$4) near10 (fast\$4 or slow\$4 or intens\$5 or gentl\$4 or vigor\$4 or speed or direction or oscillat\$4 or back\$4 or forth or front)same (agitat \$4 or pulsat\$4 or swirl\$4 or tumbl\$4 or spin\$4 or rotat\$4) near10 (stop\$4 or paus\$4) same (immers \$4 or submerg\$4 or soak \$4 or dunk\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/22 18:18

S90	43	("68".clas.) and rins\$4 same (agitat\$4 or pulsat \$4 or swirl\$4 or tumbl\$4 or spin\$4 or rotat\$4) near10 (fast\$4 or slow\$4 or intens\$5 or gentl\$4 or vigor\$4 or speed or direction or oscillat\$4 or back\$4 or forth or front) same (agitat\$4 or pulsat \$4 or swirl\$4 or tumbl\$4 or spin\$4 or rotat\$4) near10 (stop\$4 or paus \$4) same (immers\$4 or submerg\$4 or soak\$4 or dunk\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/22 18:22
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2/ 23/ 2011 4:19:37 PM

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